Product name: Human Laminin ELISA Kit

Detection method: Colorimetric

Sample type: Cell culture supernatant, Serum, Cell Lysate

Assay type: Sandwich (quantitative)

Sensitivity: < 10 pg/ml

Range: 156 pg/ml - 10000 pg/ml

Assay duration: Multiple steps standard assay

Species reactivity: Reacts with: Human

Product overview: Human Laminin in vitro ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the accurate quantitative measurement of Human Laminin in cell culture supernatants, serum and plasma (heparin, EDTA).

A Laminin specific rabbit polyclonal antibody has been precoated onto 96-well plates. Standards and test samples are added to the wells and incubated. A biotinylated detection polyclonal antibody from rabbit specific for Laminin is then added followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates were washed away with PBS or TBS buffer. TMB is then used to visualize the HRP enzymatic reaction. TMB is catalyzed by HRP to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the Human Laminin amount of sample captured in plate.

Tested applications: Suitable for: Sandwich ELISA

Platform: Microplate

Storage instructions: Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>Identifier</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC Diluent Buffer</td>
<td>Blue Cap</td>
<td>1 x 12ml</td>
</tr>
<tr>
<td>Antibody Diluent Buffer</td>
<td>Green Cap</td>
<td>1 x 12ml</td>
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</table>
Function
Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components.

Involvement in disease
Defects in LAMB2 are the cause of Pierson syndrome (PIERSS) [MIM:609049]; also known as microcoria-congenital nephrotic syndrome. Pierson syndrome is characterized by nephrotic syndrome with neonatal onset, diffuse mesangial sclerosis and eye abnormalities with microcoria as the leading clinical feature. Death usually occurs within the first weeks of life. Disease severity depends on the mutation type: nontruncating LAMB2 mutations may display variable phenotypes ranging from a milder variant of Pierson syndrome to isolated congenital nephrotic syndrome. Defects in LAMB2 are a cause of congenital nephrotic syndrome (CONPHS) [MIM:609049]. Congenital nephrotic syndrome constitutes a heterogeneous group of conditions having in common the disruption of normal glomerular permselectivity. Congenital nephrotic syndrome due to LAMB2 mutations may be associated with ocular abnormalities.

Sequence similarities
Contains 13 laminin EGF-like domains.
Contains 1 laminin IV type B domain.
Contains 1 laminin N-terminal domain.

Domain
The alpha-helical domains I and II are thought to interact with other laminin chains to form a coiled coil structure.
Domains VI and IV are globular.

Cellular localization
Secreted > extracellular space > extracellular matrix > basement membrane. S-laminin is concentrated in the synaptic cleft of the neuromuscular junction.

Applications
Our Abpromise guarantee covers the use of ab119599 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandwich ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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</table>
Sandwich ELISA - ab119599 Laminin Human ELISA Kit

Standard curve: mean of duplicates (+/-SD) with background readings subtracted

Hu laminin measured in various biological fluids showing quantity (pg) per mL of tested sample

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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